

**Webinar Title:** *The Microbiology of Wastewater Treatment. Life in the Aeration Tank: Bacteria, Protozoa and Metazoa*

*\*Note: This webinar will be a Webcast and attendees can only connect to audio via VoIP (Computer audio).\**

**Date:** Tuesday, November 17, 2020 (1-2:30pm EST)

**Presenter:** Jon van Dommelen, Ohio EPA, Compliance Assistance Unit

**Registration:** <https://attendee.gotowebinar.com/register/2924798095979033360>

**Audience:** Wastewater Treatment Plant Owners and Operators, Municipal leaders (Mayors, Council Members, Directors of Public Works, etc). While all plant owners and operators may find this useful, it is geared more toward smaller systems with flow of less than 1 million gallons per day. Others who will find this informative include: Clean Water Act National Pollutant Discharge Elimination System (NPDES) technical assistance providers, permit writers and compliance staff from states, tribes, and US EPA.

**Description:** This webinar will introduce the audience to the microorganisms that thrive in activated sludge. Changes in the environment of the aeration tank will cause different bacteria to grow. In particular, the filamentous bacteria will especially dominate when specific activated sludge environment supports their growth. Therefore, if you don't like what has grown, change the aeration tank environment and something different will grow – hopefully settling better in the clarifier.

Jon's presentation will help attendees to identify the filamentous bacteria, describe the environment that allows them to become dominant, and change that environment to select *against* the filamentous bacteria and avoid solids loss due to poor settling biology. The presentation will touch on the microscope hardware and the different microorganisms and their staining reactions – all of which contribute to knowing which bacteria are present.

**Certificate of Attendance:** Attendees receive a follow-up email 24 hours after the conclusion of the webinar including a link to download a certificate of attendance. Check your inbox or spam folder for this email. Discuss eligibility of continuing education credits with your specific certification authority.

**Accommodations:** A StreamText link for live captioning will be available.

**More information:** A website with past webinar series recordings is under development.

**Sponsors:** US EPA's Office of Compliance and the US EPA-Authorized State Reducing SNC with NPDES Permits National Compliance Initiative (NCI) Workgroup.

**Contacts:** Seth Heminway, [heminway.seth@epa.gov](mailto:heminway.seth@epa.gov); Peter Babor, [babor.peter@epa.gov](mailto:babor.peter@epa.gov); Laura Paradise, [paradise.laura@epa.gov](mailto:paradise.laura@epa.gov)

**Webinar Promotion:** *Webinar promotional emails are sent to:* EPA and state (by EPA Regions) NPDES compliance/enforcement program staff, Pretreatment Coordinators, attendees registered for prior webinars and the Fed/State SNC NCI Workgroup – who will forward to systems in noncompliance. The Association of Clean Water Administrators (ACWA), National Rural Water Association and Rural Community Assistance Partnership will distribute webinar information to their association members.